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Patent Claims:

- 1. A biocompatible, low viscosity, radiation curable formulation, especially for stereo, for use in medicinal technology, especially for producing earpieces, comprising:
- a) 55 to 95 weight percent of a monomeric or oligomeric dimethacrylate on the basis of bisphenol-A or bisphenol-F;
- b) 0 to 20 weight percent of a urethane methacrylate with a viscosity > 4 and a viscosity < 15 Pa s;</p>
- c) 2 to 15 weight percent of a monomeric or aliphatic or cycloaliphatic dimethacrylate with a viscosity < 5 Pa s;</p>
- d) 0 to 15 weight percent of a monofunctional methacrylate with a viscosity < 3 Pa s;</p>
- e) 0.5 to 6 weight percent of one or a combination of photoinitiators whose absorption lies in the wavelength range of the laser beam used;
- f) 0.001 to 2 weight percent of the inhibitor 2,2,6,6-tetramethylpiperdine-1-yloxy (free radical) which can be present in combination with known inhibitors;
 - g) 0 to 40 weight percent of fillers;
 - h) 0 to 5 weight percent of color pigments;

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- i) 0 to 5 weight percent of usual additives like UV stabilizers or flow additives, whereby the proportion of the components a to h together amounts to 100%.
 - 2. The formulation according to claim 1 comprising:
- a) 60 to 90 weight percent of an n-fold ethoxylated bisphenol-A-dimethacrylate with a degree of ethyloxilation of n < 10 or a mixture of n-fold ethoxylated bisphenol-A-dimethacrylate with a degree of n < 10;
- b) 5 to 17 weight percent of an aliphatic or cycloaliphatic urethane methacrylate with sensitivity of n < 4 and a viscosity of < 10Pa s;</p>
- c) 3 to 10 weight percent of an aliphatic or cycloaliphatic urethane dimethacrylate with and a viscosity < 3 Pa s;</p>
- d) 2 to 10 weight percent of a monofunctional methacrylate with a viscosity < 3 Pa s;</p>
- e) 1 to 4 weight percent of one or a combination of a plurality of photoinitiators whose absorption is in the wavelength range of the laser beam used;
- f) 0.005 to 0.05 weight percent of the initiator 2,2,6,6-tetramethylpiperdine-1-yloxy (free radical) optionally in

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combination with known inhibitors;

- g) 0.20 weight percent of fillers;
- h) 0 to 5 weight percent of color pigments;
- i) 0.01 to 3 weight percent of conventional additives like UV stabilizers or flow additives whereby the proportion of the components of (a) to (h) amount together to 100%.